CLAIMS

- 1. Racemic tolterodine free base in crystalline form.
- 2. Racemic tolterodine free base in crystalline form containing less than about 0.2% of dimeric impurity.
- Tolterodine according to claim 2, wherein the dimeric impurity comprises one or both of the following impurities:

Dimer 1:

Dimer 2:

4. A process of preparing racemic tolterodine free base in crystalline form, which comprises deprotection of protected intermediate of formula (II)

wherein a solvent is present in the reaction mass obtained further to the deprotection and is selected so that a substantially mobile reaction mass is achieved at temperatures in the range of 70 to 100°C.

5. A process according to claim 4, wherein said deprotection employs pyridine hydrochloride.

- 6. A process according to claim 5, wherein said deprotection is carried out under an inert atmosphere at a temperature in the range of 200 to 220°C.
- 7. A process according to claim 6, wherein further to said deprotection said reaction mass is cooled to a temperature in the range of 110 to 130°C and said solvent is added thereto.
- 8. A process according to any of claims 4 to 7, wherein said solvent is dimethylformamide.
- 9. A process according to any of claims 4 to 8, wherein the resulting crude hydrochloride salt of racemic tolterodine is basified and the resulting racemic tolterodine free base extracted and precipitated to provide crystalline racemic tolterodine free base.
- 10. A process according to any of claims 4 to 9, which further comprises a purification step to obtain racemic tolterodine free base in crystalline form containing less than about 0.2% of dimeric impurity.
- 11. A process according to any of claims 4 to 10, which further comprises resolving the thus obtained racemic tolterodine free base to obtain (+)tolterodine tartrate containing less than about 0.1% of dimeric impurity.
- 12. A process according to claim 10 or 11, wherein said dimeric impurity comprises one or both of the following impurities:

Dimer 1:

Dimer 2:

- 13. Racemic tolterodine free base in crystalline form prepared by a process according to any of claims 4 to 10.
- 14. (+)Tolterodine tartrate prepared by a process according to claim 11.
- 15. A process of preparing racemic tolterodine free base in crystalline form, which process comprises deprotection of a benzyl protected intermediate of formula (III)

where R_a represents unsubstituted benzyl, or a substituted benzyl protecting group.

- 16. A process according to claim 15, which further comprise resolving the thus obtained racemic tolterodine free base to obtain (+)tolterodine tartrate containing less than about 0.1% of dimeric impurity.
- 17. A process according to claim 15 or 16, wherein R_a represents unsubstituted benzyl.
- 18. A process according to any of claims 15 to 17, wherein an intermediate compound of formula (III) is prepared by reaction of diisopropylamine with an intermediate compound of formula (IV)

where R_a is as defined in claim 15 and X represents a leaving group.

- 19. A process according to claim 18, wherein X represents arylsulphonyloxy.
- 20. A process according to claim 19, wherein X represents tosylate.
- 21. A process according to any of claims 18 to 20, wherein an intermediate compound of formula (IV) is prepared from an intermediate compound of formula (V)

where R_a is as defined in claim 15.

22. A process according to claim 21, wherein a compound of formula (V) is prepared by protection of an intermediate compound of formula (VI)

by introduction of group R_a , where R_a is as defined in claim 15.

- 23. A process according to claim 22, wherein a compound of formula (VI) is prepared from 6-methyl-4-phenyl-chroman-2-one.
- 24. Racemic tolterodine free base in crystalline form prepared by a process according to any of claims 15 or 17 to 23.
- 25. (+)Tolterodine tartrate prepared by a process according to claim 16.
- 26. An intermediate compound of formula (V)

where R_a represents unsubstituted benzyl, or a substituted benzyl protecting group.

- 27. An intermediate of formula (V) according to claim 26, wherein R_a represents unsubstituted benzyl.
- 28. An intermediate compound of formula (VI)

- 29. A pharmaceutical composition comprising tolterodine according to any of claims 1 to 3, 13, 14, 24 or 25, together with a pharmaceutically acceptable carrier, diluent or excipient therefor.
- 30. Tolterodine according to any of claims 1 to 3, 13, 14, 24 or 25, for use in therapy.

- 31. A method of treating a condition prevented, ameliorated or eliminated by the administration of an anti-cholinergic agent, which method comprises administration to the patient a therapeutically effective amount of tolterodine according to any of claims 1 to 3, 13, 14, 24 or 25.
- 32. A method according to claim 31, for the treatment of urinary incontinence.
- 33. Use of tolterodine according to any of claims 1 to 3, 13, 14, 24 or 25, in the manufacture of a medicament for the treatment of urinary incontinence.